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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,157	11/25/2003	Shuzo Iwashita	81863.0024	7015
26021 75	90 01/18/2006		EXAMINER	
HOGAN & HARTSON L.L.P. 500 S. GRAND AVENUE		LOPEZ, CARLOS N		
SUITE 1900	AVENUE		ART UNIT	PAPER NUMBER
LOS ANGELES, CA 90071-2611			1731	

DATE MAILED: 01/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/722,157	IWASHITA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Carlos Lopez	1731	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address	•
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perions are period for reply within the set or extended period for reply will, by stated any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MOI tute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 11	<u>/16/05</u> .		
2a) This action is FINAL . 2b) Ti	his action is non-final.		
3) Since this application is in condition for allow	•	• •	s is
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.[D. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application	on.		
4a) Of the above claim(s) is/are withd			
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-30</u> are subject to restriction and/o	or election requirement.		
Application Papers	•		
9) The specification is objected to by the Exami	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b)☐ objected to	by the Examiner.	
Applicant may not request that any objection to the	ne drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	•	•	
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152	·-
Priority under 35 U.S.C. § 119	,		
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
 Certified copies of the priority docume 	ents have been received.		
Certified copies of the priority docume		·· ———	
3. Copies of the certified copies of the pr	•	received in this National Stage	
application from the International Bure	, , , , , , , , , , , , , , , , , , , ,		
* See the attached detailed Office action for a li	ist of the certified copies not	received.	
Attachment(s)	_		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0	(08) 5) Notice of	nformal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:	·	

Application/Control Number: 10/722,157

Art Unit: 1731

DETAILED ACTION

A corrected restriction requirement was previously mailed to clarify that product claims 14-16, 26-27 and 29 should have been placed in group II and claim 28 placed in group IV. However, a typing error did note include the above changes. A restriction requirement follows.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-5, drawn to piezoelectric ceramics with thickness, surface flatness, and plane variation, classified in class 310, subclass 358.
- II. Claims 14-19, 25-27 and 29-30, drawn to an actuator comprising piezoelectric substrate, classified in class 156, subclass 73.6.
- III. Claims 6-13, drawn to a method of manufacturing piezoelectric ceramics comprising firing a green compact, classified in class 264, subclass 671.
- IV. Claims 20-24, and 28 drawn to a method of manufacturing an actuator, classified in class 156, subclass 89.12.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the

Application/Control Number: 10/722,157

Art Unit: 1731

particulars of the subcombination as claimed because there is no mention of the flatness or total flatness in the combination. The subcombination has separate utility such as using the piezoelectric ceramic may be used in an accelerometer, for example.

Inventions III and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product can be made by a materially different process such as a film forming process that does not require firing the ceramic.

Inventions IV and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product can be made by a materially different process such as a film forming process that does not require firing the ceramic.

Inventions I and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions to a piezoelectric ceramics of group I is not

Application/Control Number: 10/722,157

Art Unit: 1731

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capable of use together, has different modes of operation, different functions, or different effects than a method of manufacturing an actuator of group IV.

Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions to an actuator of group II is not capable of use together, has different modes of operation, different functions, or different effects than a method of manufacturing a piezoelectric of group III.

Inventions III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions to a method of manufacturing piezoelectric ceramics of group III not capable of use together, has different modes of operation, different functions, or different effects than a method of manufacturing an actuator of group IV.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Groups I-IV are not coextensive, restriction for examination purposes as indicated is proper.

Art Unit: 1731

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

A telephone call was made to Lawrence Mclure on 1/13/06 to request an oral election and the noted corrections of the previous restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos Lopez whose telephone number is 571.272.1193. The examiner can normally be reached on Mon.-Fri. 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571.272.1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/722,157 Page 6

Art Unit: 1731

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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